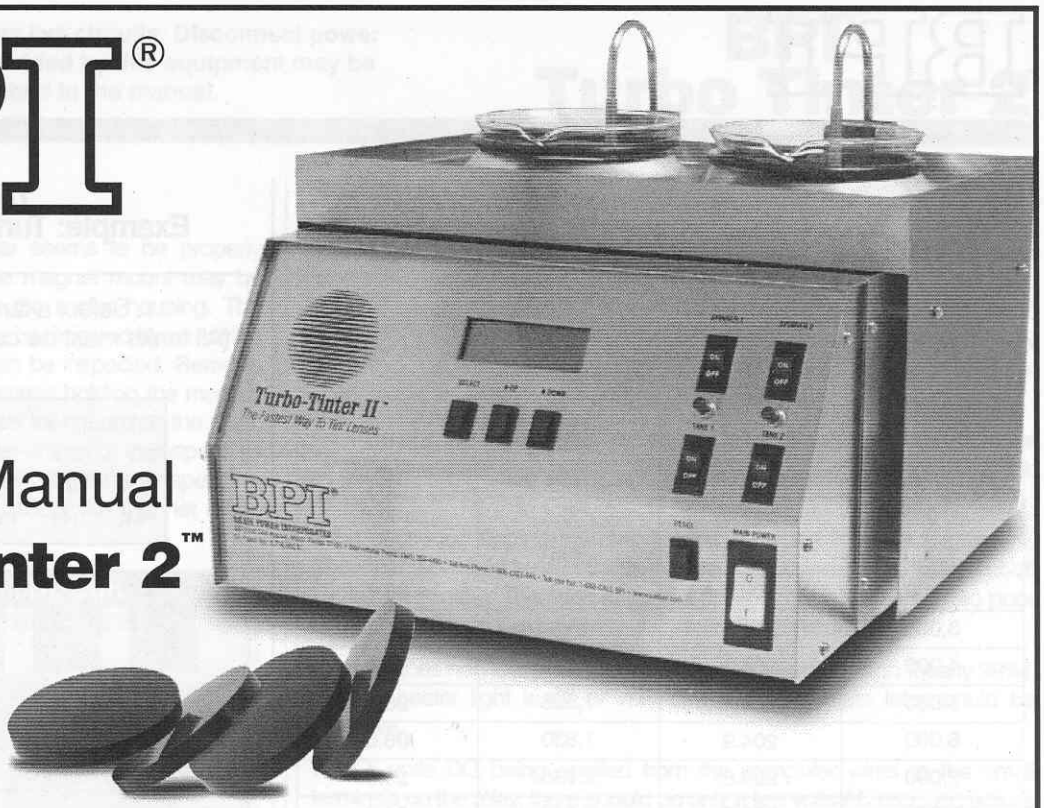
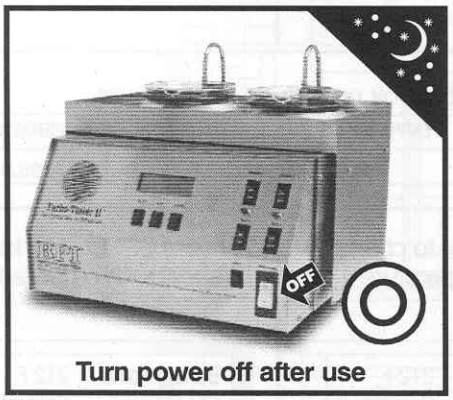
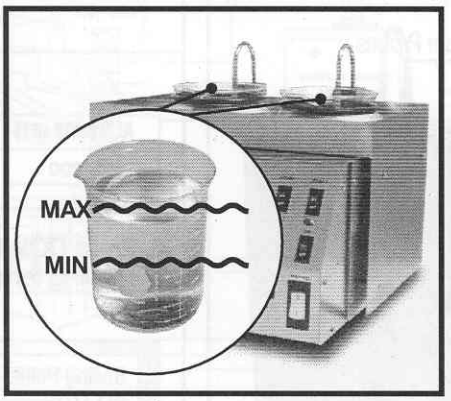
BPI®



Service Technician's Manual

BPI® Turbo Tinter 2™





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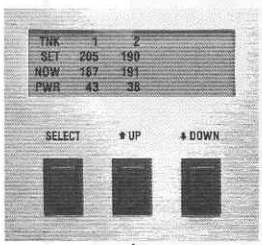
BPI®

Altitude

MAXIMUM ALTITUDE: 2000 meters 6561 feet

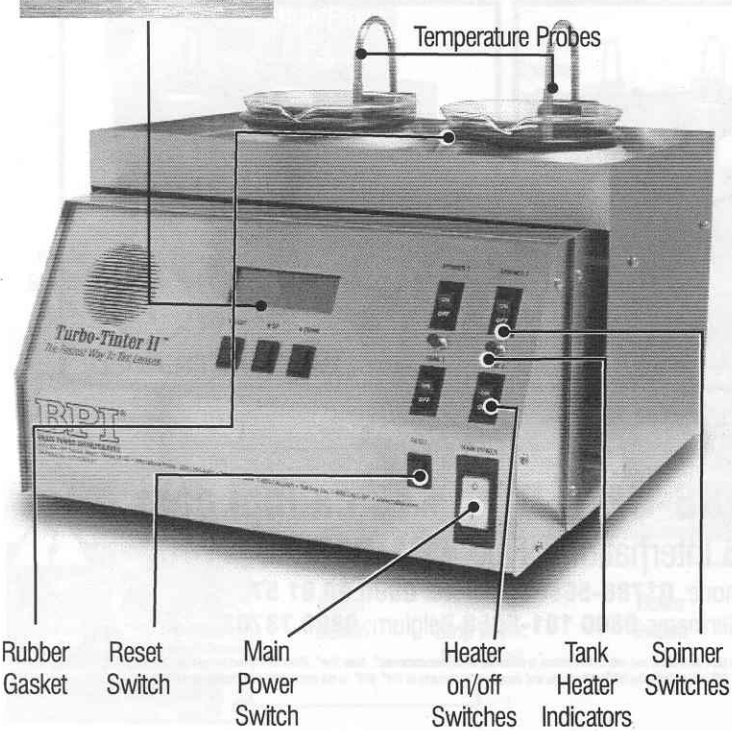
Indoor use only. Maximum room temperature: 40°C (104°F)
Maximum humidity: 93% Installation category 2.
Pollution degree 2.

FEET & ° FAHRENHEIT		METERS & ° CENTIGRADE	
ALTITUDE (FT)	TEMPERATURE (°F)	ALTITUDE (M)	TEMPERATURE (°C)
0	212.0	0	100.0
1,000	210.9	305	99.4
2,000	209.7	610	98.7
3,000	208.5	915	98.1
4,000	207.3	1,220	97.4
5,000	206.1	1,525	96.7
6,000	204.9	1,830	96.0
7,000	203.6	2,135	95.3
8,000	202.3	2,440	94.6
9,000	201.0	2,745	93.9
10,000	199.6	3,050	93.1
11,000	198.2	3,355	92.3
12,000	196.7	3,660	91.5



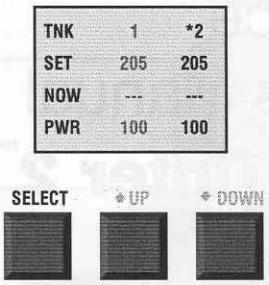
TNK Tank with * is selected
SET Desired temperature
NOW Current temperature
PWR % of full power

Temperatures return to default when power is turned off

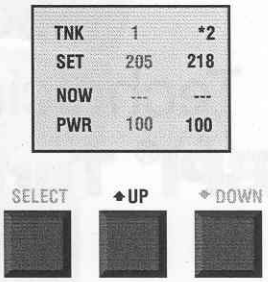


TANK CALIBRATION - Example: Turbo Tinter™ at altitude 7000 feet

1. Select a tank. (All tanks must be calibrated)



2. Increase temperature above 212°F or 100°C



3. Wait for tank to boil

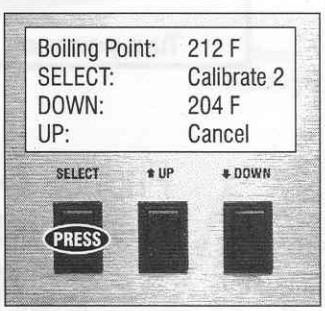
4. Press UP & DOWN at the same time

5. Look up altitude on the chart

ALTITUDE (FT)	TEMPERATURE (°F)	ALTITUDE (M)	TEMPERATURE (°C)
6,000	204.9	1,830	96.0

6. Press DOWN to change boiling temperature

7. Press SELECT to keep. Repeat with other tanks

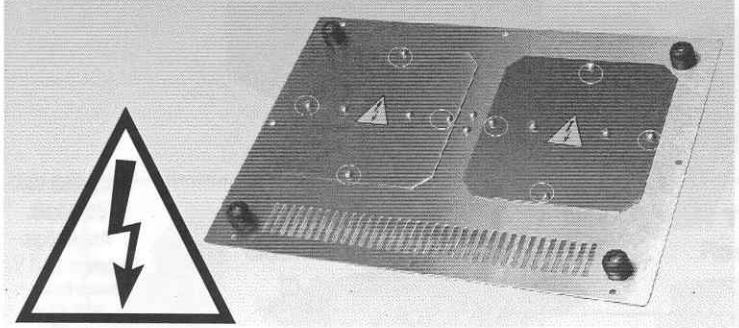


Accessing the spinner motors

If a spinner is not operating, but the stir bar seems to be properly positioned, the motor may be defective or the magnet mount may be loose on the motor shaft and/or rubbing on the motor housing. The bottom plate holding the motor in question may be dropped by removing the four screws shown and the motor may then be inspected. **Remove power before removing any panel.** The set screw holding the magnet mount may be loosened to allow repositioning of the mount on the shaft. The motor may be turned on with the plate dropped to inspect its operation. If the problem does not seem to be with the motor, inspect the area on the plate above the magnet mount to see if the magnet might have been rubbing the heater case.

BASE PLATE SHOWN FROM UNDERNEATH

Spinner motor access panels (1) **REMOVE CIRCLED SCREWS ONLY**



Accessing the cut-off reset button

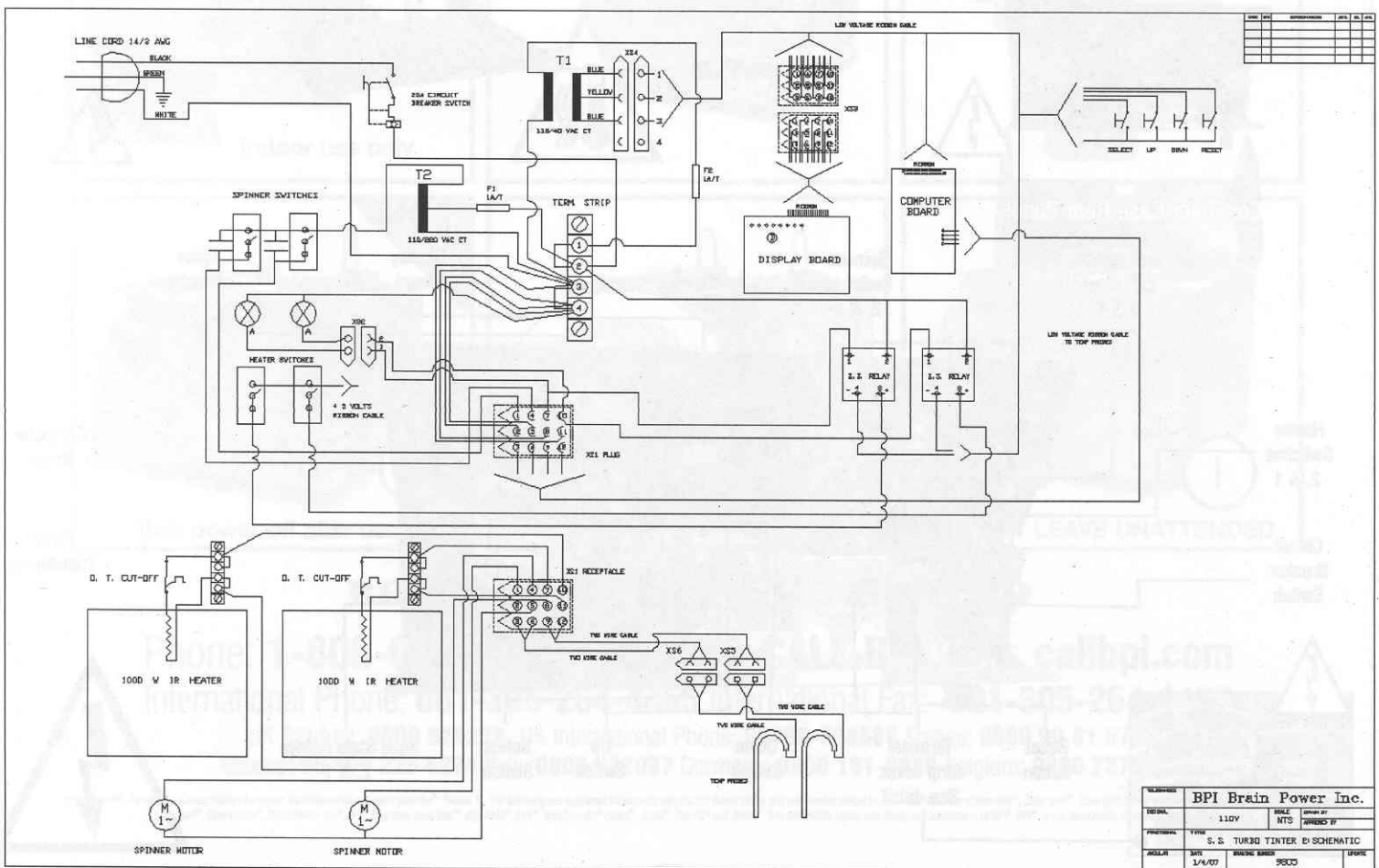
If a tank does not heat even though the power level is shown to be high (near 99%) and the tank heater indicator is constantly on, the over temperature current cut-off may have tripped. The cut-off sensor reset button is attached to the bottom of the heater case and may reached by removing the same access panels (1) which hold the spinner motors. **Remove power before removing any panel.**

An indication that the cut-off has tripped is that the tank heater indicator remains on, rather than occasionally flicking fully off. (As it will even at the 99% power level).

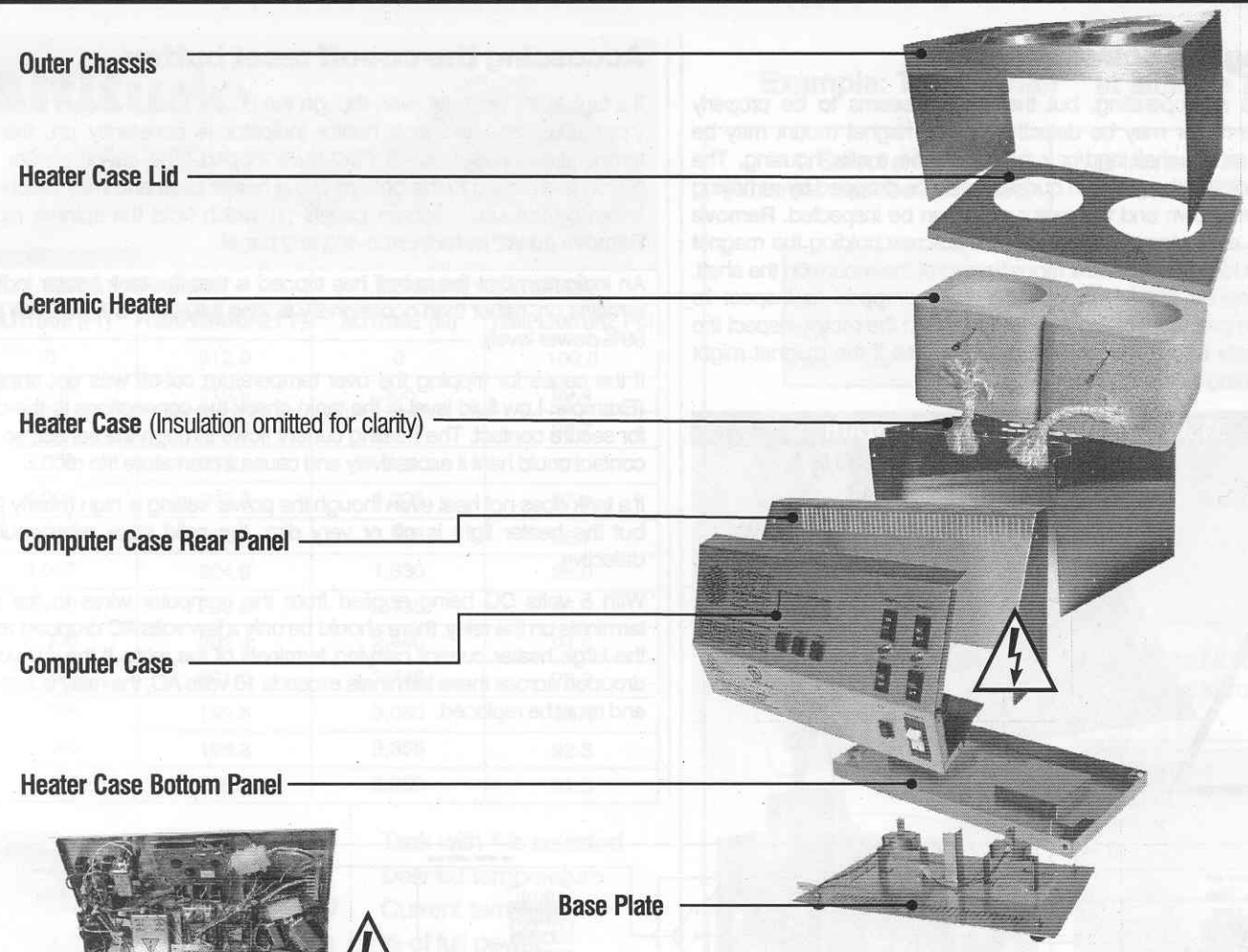
If the cause for tripping the over temperature cut-off was not apparent, (Example: Low fluid level in the tank) check the connections to the cut-off for secure contact. The heating current flows through the sensor, so poor contact could heat it excessively and cause a premature trip off.

If a tank does not heat even though the power setting is high (nearly 99%), but the heater light is off or very dim, the solid state relay could be defective.

With 5 volts DC being applied from the computer wires to the small terminals on the relay, there should be only a few volts AC dropped across the large heater current carrying terminals of the relay. If the AC voltage dropped across these terminals exceeds 10 volts AC, the relay is defective and must be replaced.



BPI® Turbo Tinter 2™ Assembly



208-250 VAC
50/60 Hz.
Amperage:
18 amps 230 VAC
Voltage fluctuation not to exceed ±10%